

Fishery Fact Sheet

CECAF Fisheries Reports 2011

Spain Small scale purse seine anchovy fishery - Moroccan Atlantic coast waters, North zone, 2011

Senneurs espagnols dans la zone nord

Data Ownership

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Fishery life cycle

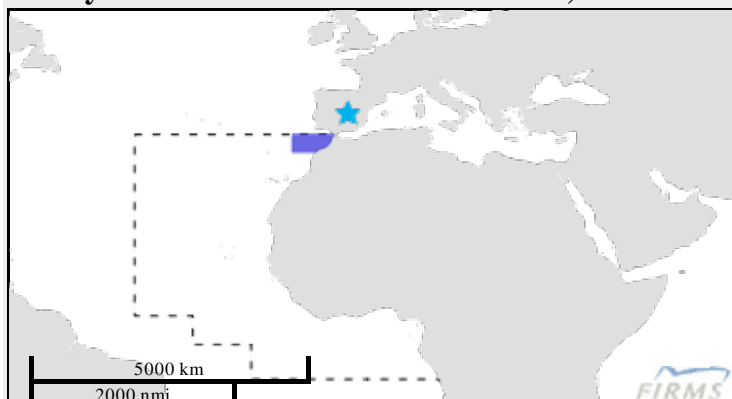
The closure period (1999-2006) was due to the absence of fishing agreement.

This fishery terminated on 1999.

This fishery started on 2007 and terminated on 2011.

Overview: The Barbate's purse seine fleet was included into the fishing categories called: "Seiners-Northern Cape Noun/North Atlantic/North" of the different agreements. The management measures of this Andalusian purse seine fleet regulated by the agreements mainly consist on an effort control (through GRTs limitations) and technical measures such as the limitation of the fishing areas, close seasons and gear size. Anchovy is the target species of this fleet in the Atlantic Moroccan fishing ground, due to its high economical value. This species accounted for 80% of the total catches for this fleet. Sardine (*Sardina pilchardus*) represents the second species in landings, accounting for less than 20% of the landings in most of the years. The rest of the species shows a low relative importance in landings. These species belong, in order of importance, to the groups *Trachurus* spp. and *Scomber* spp. A sharp increase of landings and exerted effort took place in the last four years before the end of the Agreement, reaching the maximum values in 1999. In fact, such peaks corresponded to an important decrease of the anchovy landings in the Gulf of Cadiz that year, the alternative fishing ground for the Barbate's fleet. The landings of this fleet, after its re-incorporation in 2007 have only represented the 6 percent of the 1999 landings although by exerting the 22 percent of the effort applied that year.

Location of Spain Small scale purse seine anchovy fishery - Moroccan Atlantic coast waters, North zone



APPROACH: FISHING ACTIVITY

Fishing Activity

Fishing Gear: Purse seines

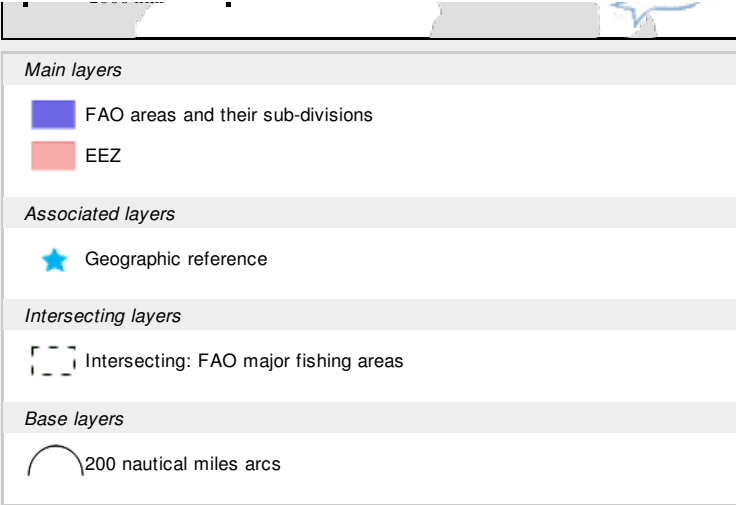
Type of production system: Commercial; Semi-industrial

Fishery Area: Morocco Atlantic coast - North Zone; Morocco; Atlantic, East ...

Seasonality: From April to November

Harvested Resource

Target Species: European anchovy



Associated Species: European pilchard(=Sardine); Scomber mackerels nei; Jack and horse mackerels nei

Means of Production
Vessel Type: Purse seiners

Fishery Indicators
Nominal Effort: Number of vessels
Participation: Number of fishermen
Production: Landing Volume Total

Main layers

- FAO areas and their sub-divisions
- EEZ

Associated layers

- Geographic reference

Intersecting layers

- Intersecting: FAO major fishing areas

Base layers

- 200 nautical miles arcs

Geographic reference: Spain

Spatial Scale: National

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History

The fishery of small pelagic species such as anchovy and sardine in Northern Morocco has been a common practice during centuries for vessels coming from the Southern region of the Iberian Peninsula. The enforcement of the Law of the Sea firstly led to the Spanish Fishery Administration and then to the EU (from 1988 onwards) to negotiate the access to the Moroccan fishery resources through fishing agreements. Fisheries in Morocco were closed to the European fleet by the end of November 1999. After six years of closure, a new fishing agreement signed in 2006 between the Kingdom of Morocco and the EU has allowed the Andalusian purse-seine fleet based at Barbate (Cádiz, S Iberian Peninsula) to re-start its fishery in the Atlantic Moroccan waters in April 2007.

Fishing Activity

Type of production system: Commercial; Semi-industrial

Fishery Area

Climatic zone: Temperate. **Depth zone:** Shelf (50 m - 200 m); Slope - Upperslope (200 m - 500 m). **Horizontal distribution:** Neritic. **Vertical distribution:** Pelagic.

Geo References for: Morocco Atlantic coast - North Zone

Morocco Atlantic coast - North Zone

Exclusive Economic Zone Areas (EEZ)	MAR - Morocco
FAO Fishing Statistical Subdivisions	34.1.11 - Atlantic, East central / 34.1.11

More Geo References

The following area codes have been found as intersecting the location of Spain Small scale purse seine anchovy fishery - Moroccan Atlantic coast waters, North zone

FAO Major Fishing Areas	34 - Atlantic, Eastern Central
	37 - Mediterranean and Black Sea
Large Marine Ecosystem Areas (LME)	26 - Mediterranean Sea
	27 - Canary Current

Details on depth zone: Shelf from 50 m to 300 m. The Moroccan Atlantic coast is part of one of the four major trade-wind driven continental margin upwelling zones in the world oceans, the northwestern African upwelling system (or the Canary Current System). In the Eastern Central Atlantic, the dynamics of an eastern boundary current interacting with trade wind-driven upwelling control this marine ecosystem with exceptionally high primary and secondary productivity (Cury and Roy, 1989; Binet, 1997; Demarcq and Faure, 2000). While coastal upwelling occurs mostly on the shelf, biogenic particles derived from upwelling are deposited mostly at the upper continental slope. Nutrient-rich coastal water is transported within the Cape Ghir filament region at 30°N up to several hundreds of kilometers offshore. Both upwelling intensity and filament activity are dependent on the strength of the summer Trades (Freudenthal et al., 2002).

Resources Exploited

Anchovy - Morocco and Mauritania

Sardine - Morocco (northern stock 35°45'-32°N)

Atlantic horse mackerel - Morocco (North of 26° N)

Chub mackerel - From the northern part of Morocco to Cape Bojador

Other coastal small pelagics.

Target Species

Engraulis encrasicolus

FAO Names : en - European anchovy, fr - Anchois, es - Boquerón, ru - Анчоус европейский

Adults

Associated Species (Bycatch)

Sardina pilchardus

FAO Names : en - European pilchard(=Sardine), fr - Sardine commune, es - Sardina europea, ar - سردين, zh - 沙丁鱼, ru - Сардина европейская

Scomber spp

FAO Names : en - Scomber mackerels nei, fr - Maquereaux scomber nca, es - Caballas scomber nep

Trachurus spp

FAO Names : en - Jack and horse mackerels nei, fr - Chinchards noirs nca, es - Jureles nep, ru - Ставриды

Adults

Related Fisheries - Fishery(ies) switching activity seasonally or targeting the same stock

Morocco Coastal traditional purse seine sardine fishery - Northern zone

Morocco Coastal traditional purse seine sardine fishery - A zone

Vessel Type

Purse seiners

Flag State

 Spain

Purse seiners. The average characteristics in the period 2007-2008 were 19 m length, 47.5 GRT and 366 h.p.

Crew

15 persons (Spanish and Moroccan nationalities) (2009)

Fisherfolks Community

Barbate (Cádiz, Andalucía, S Iberian Peninsula) and Moroccan community

Fleet segment

Purse seine for small pelagic fish

The vessels which have usually been benefited from the Morocco fishery licences belong to a fleet segment of heavy-tonnage purse-seiners based at Barbate (Cádiz, S Iberian Peninsula), the so called Barbate's "Trañías". These vessels have traditionally alternated the small pelagics fishery (mainly anchovy) in the North West Moroccan fishing ground and that in the Spanish waters off the Gulf of Cádiz (Millán, 1992). The Barbate's purse seine fleet was included into the categories called: "Seiners-Northern Cape Noun/North Atlantic/North" of the different agreements.

Fishing Gear

Purse seines

Surrounding nets with purse lines (purse seines). The gear is locally called "traíña". The main body-net is composed of a number of long and rectangular sheet nets, horizontally delimited through all its length by resistant net strips. The net is vertically kept through a lead-line in the ground-rope and a buoyed line in the head-rope. The purse line, locally called "jareta", closes the seine when the fish school is surrounded, forming a big bag with the catches inside. They used to attract the schools by using powerful lights that increased the fishing efficiency.

Seasonality

From April to November

Trip Duration

1 fishing day

Ports

Barbate (Cádiz, S Iberian Peninsula)

Fishery Indicators

Type	Measure	Value	Unit	Time period
Nominal Effort	Number of vessels	19	vessels	2007-2009
Participation	Number of fishermen	300	persons	2007-2009
Production	Landing Volume Total	1265	tonnes	2007-2009

	Landing Volume <i>E. encrasicolus</i>	904	tonnes	2007-2009
	Landing Volume <i>S. pilchardus</i>	331	tonnes	2007-2009

Post Harvest

Fish Utilisation

Fresh and salted anchovy for consumption

Markets

Barbate (Cádiz, Spain)

Management

Management unit: No

Jurisdictional framework

Management Body/Authority(ies): Ministère de l'Agriculture et de la Pêche Maritime.
Département de la Pêche Maritime

Mandate: Monitoring; Management.

Area under national jurisdiction: Morocco

Maritime Area: Exclusive Economic Zone Areas (EEZ).

Management Body/Authority(ies): European Union

Mandate: Flag state responsibility for its fishing vessels operating in foreign area under national jurisdiction.

Area under national jurisdiction: Morocco

Maritime Area: Exclusive Economic Zone Areas (EEZ).

Legal definition

Small-scale fishing/north: pelagic species

Management Regime

Fisheries Partnership Agreement between the European Communities and the Kingdom of Morocco (OJ L 141, 29.5.2006, p. 1–37).

Management measures of the Spanish purse seine fishery are included in the last Fisheries Partnership Agreement between the European Community and the Kingdom of Morocco (2006) into the fishing category “Small-scale fishing/north: pelagic species”.

Management Methods

CONSERVATION AND MANAGEMENT MEASURES with focus on Effort control-Licences system

- *Gear-related measures*

Gear dimension (maximum authorised dimensions of the seine net: 500 m × 90 m) and ban on fishing with “lampara” nets.

- *Vessel-related measures*

Access control: vessel size (< 100 GT)

- *Fishing activity-related measures*

Licences, Vessel number (20), closed area (out of the area North of 34°18' and beyond 2 miles) and closed season (Two months: February and March).

Related Fisheries - Fishing activity(ies) managed under the same management unit or being ruled by the same fishing agreement

Spain Bottom wet fish trawler black hake fishery - Moroccan Atlantic coast waters, South 29°N

More information on fisheries legislation at: FAOLEX legislative database

Status and Trends

The fishery was closed during the period 1999-2006. After the agreement renewal in 2007, it has been appreciated a drop in catches, in comparison to those before 1999. This lower catches are attributed to the geographical limitations of the new fishing agreement.

Source of Information

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